

Interference search 09/826737

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	watermark\$3.clm. and pattern\$1.clm. and transmit\$4.clm. and insert\$3.clm. and generat\$3.clm. and key.clm. and random.clm. and shift\$3.clm.	US-PGPUB; USPAT	OR	OFF	2005/12/15 14:51

updated search 09/826737

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	watermark\$3.clm. and pattern\$1.clm. and transmit\$4.clm. and insert\$3.clm. and generat\$3.clm. and key.clm. and random.clm. and shift\$3.clm.	US-PGPUB; USPAT	OR	OFF	2005/12/15 14:52
L2	462	watermark\$3 and pattern\$1 and transmit\$4 and insert\$3 and generat\$3 and key and random and shift\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:52
L3	2124	713/176	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:52
L4	3822	713/176 or 380/201 or 380/203 or 715/526 or 725/517 or 380/205 or 380/210 or 380/217	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:54
L5	99	4 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:55
L6	1	5 and "preset intervals"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:55
L7	55	5 and "intervals"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:56
L8	1	7 and shift with random	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 14:56

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Terms used

Fc

[watermark\\$3](#) and [pattern\\$1](#) and [transmit\\$4](#) and [insert\\$3](#) and [generat\\$3](#) and [key](#) and [random](#) and [shift\\$3](#)

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Conrado Martínez, Salvador Roura

March 1998 **Journal of the ACM (JACM)**, Volume 45 Issue 2**Publisher:** ACM PressFull text available: [pdf\(321.57 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this paper, we present randomized algorithms over binary search trees such that: (a) the insertion of a set of keys, in any fixed order, into an initially empty tree always produces a random binary search tree; (b) the deletion of any key from a random binary search tree results in a random binary search tree; (c) the random choices made by the algorithms are based upon the sizes of the subtrees of the tree; this implies that we can support accesses by rank without additional storage req ...

Keywords: balanced trees, probabilistic algebraic specification, randomized data structures, search trees, self-organizing data structures

2 A Public-Key Watermarking Technique for IP Designs

Amr T. Abdel-Hamid, Sofiene Tahar, El Mostapha Aboulhamid

March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1****Publisher:** IEEE Computer SocietyFull text available: [pdf\(164.82 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Sharing IP blocks in today's competitive market poses significant high security risks. Creators and owners of IP designs want assurances that their content will not be illegally redistributed by consumers, and consumers want assurances that the content they buy is legitimate. Recently, digital watermarking emerged as a candidate solution for copyright protection of IP blocks. In this paper, we propose a new approach for watermarking IP designs based on the embedding of the ownership proof as par ...

3 Efficient computation on oblivious RAMs

R. Ostrovsky

April 1990 **Proceedings of the twenty-second annual ACM symposium on Theory of computing****Publisher:** ACM PressFull text available: [pdf\(1.00 MB\)](#)Additional Information: [full citation](#), [citations](#), [index terms](#)

4 Functional Testing of Semiconductor Random Access Memories

 Magdy S. Abadir, Hassan K. Reghabti
September 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.58 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 A shot classification method of selecting effective key-frames for video browsing

 Hisashi Aoki, Shigeyoshi Shimotsuji, Osamu Hori
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Research sessions: Web, XML and IR: Understanding Web query interfaces: best-effort parsing with hidden syntax

 Zhen Zhang, Bin He, Kevin Chen-Chuan Chang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available:  pdf(431.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recently, the Web has been rapidly "deepened" by many searchable databases online, where data are hidden behind query forms. For modelling and integrating Web databases, the very first challenge is to understand what a query interface says- or what *query capabilities* a source supports. Such automatic extraction of interface semantics is challenging, as query forms are created autonomously. Our approach builds on the observation that, across myriad sources, query forms seem to reveal some ...

7 Publicly detectable techniques for the protection virtual components

 Gang Qu
June 2001 **Proceedings of the 38th conference on Design automation**

Publisher: ACM Press

Full text available:  pdf(131.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Highlighted with the newly released intellectual property (IP) protection white paper by VSI Alliance, the protection of virtual components (VCs) has received a large amount of attention recently. Digital signature is one of the most promising solutions among the known protection mechanisms. However, the trade-off between hard-to-attack and easy-to-detect and the lack of efficient detection schemes are the major obstacles for digital signatures to thrive. In this paper, we propose a new wat ...

8 Computational Approaches to Image Understanding

 Michael Brady
January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(10.04 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9

Marking and tracing methods: Tamper detection and localization for categorical data

 [using fragile watermarks](#)

Yingjiu Li, Huiping Guo, Sushil Jajodia

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Publisher: ACM Press

Full text available:  [pdf\(150.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, database relations are widely used and distributed over the Internet. Since these data can be easily tampered with, it is critical to ensure the integrity of these data. In this paper, we propose to make use of fragile watermarks to detect and localize malicious alterations made to a database relation with categorical attributes. Unlike other watermarking schemes which inevitably introduce distortions to the cover data, the proposed scheme is distortion free. In our algorithm, all tupl ...

Keywords: database security, fragile watermarking, integrity

10 [VYRD: verifYing concurrent programs by runtime refinement-violation detection](#)

 Tayfun Elmas, Serdar Tasiran, Shaz Qadeer

June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6

Publisher: ACM Press

Full text available:  [pdf\(683.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a runtime technique for checking that a concurrently-accessed data structure implementation, such as a file system or the storage management module of a database, conforms to an executable specification that contains an atomic method per data structure operation. The specification can be provided separately or a non-concurrent, "atomized" interpretation of the implementation can serve as the specification. The technique consists of two phases. In the first phase, the implementation is ...

Keywords: concurrent data structures, refinement, runtime verification

11 [Towards an intelligent multilingual keyboard system](#)

Tanapong Potipiti, Virach Sornlertlamvanich, Kanokwut Thanadkran

March 2000 **Proceedings of the first international conference on Human language technology research HLT '01**

Publisher: Association for Computational Linguistics

Full text available:  [pdf\(64.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes a practical approach employing n-gram models and error-correction rules for Thai key prediction and Thai-English language identification. The paper also proposes rule-reduction algorithm applying mutual information to reduce the error-correction rules. Our algorithm reported more than 99% accuracy in both language identification and key prediction.

12 [Building a layered framework for the table abstraction](#)

 H. Conrad Cunningham, Jingyi Wang

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(88.31 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: application framework, design contract, layered architecture, software design pattern, table ADT

13 Cryptology II: How to conduct a sealed bargain on the internet

 Qianhong Wu, Bo Qin, Yumin Wang

November 2004 **Proceedings of the 3rd international conference on Information security InfoSecu '04**

Publisher: ACM Press

Full text available:  pdf(575.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We show a novel application of cryptography and implement the first sealed bargain scheme. Beginning with the conventional bargain, we define a sealed bargain model. Compared with the conventional bargain, the sealed one enjoys more convenience without loss of its economic properties. Finally, a concrete and simplified sealed bargain scheme is proposed with protection of privacy of both the seller and the costumer. The scheme follows the *buy-and-leave* principle, and one round of communica ...

Keywords: privacy protection, sealed bargain, secure multi-party computation

14 Efficient indexing for broadcast based wireless systems

Narayanan Shivakumar, Suresh Venkatasubramanian

December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(452.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the application of high volume information dissemination in broadcast based mobile environments. Since current mobile units accessing broadcast information have limited battery capacity, the problem of quick and energy-efficient access to data becomes particularly relevant as the number and sizes of information units increases. We propose several randomized and Huffman-encoding based indexing schemes that are sensitive to data popularity patterns to structure data transmission on ...

15 Clustering categorical data: an approach based on dynamical systems

David Gibson, Jon Kleinberg, Prabhakar Raghavan

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(213.68 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We describe a novel approach for clustering collections of sets, and its application to the analysis and mining of categorical data. By "categorical data," we mean tables with fields that cannot be naturally ordered by a metric – e.g., the names of producers of automobiles, or the names of products offered by a manufacturer. Our approach is based on an iterative method for assigning and propagating weights on the categorical values in a table; this facilitates a type of similar ...

Keywords: Categorical data, Clustering, Data mining, Dynamical systems, Hypergraphs

16 Semantics-based concurrency control: beyond commutativity

 B. R. Badrinarath, Krithi Ramamritham

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available:  pdf(2.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The concurrency of transactions executing on atomic data types can be enhanced through the use of semantic information about operations defined on these types. Hitherto, commutativity

of operations has been exploited to provide enhanced concurrency while avoiding cascading aborts. We have identified a property known as recoverability which can be used to decrease the delay involved in processing noncommuting operations while still avoiding cascading aborts. When an invoked ...

Keywords: concurrency control, semantic information

17 Binding, migration, and scalability in CORBA

 Michi Henning
October 1998 **Communications of the ACM**, Volume 41 Issue 10

Publisher: ACM Press

Full text available:  pdf(210.60 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Retrospective on Aurora

Hari Balakrishnan, Magdalena Balazinska, Don Carney, Uğur Çetintemel, Mitch Cherniack, Christian Convey, Eddie Galvez, Jon Salz, Michael Stonebraker, Nesime Tatbul, Richard Tibbetts, Stan Zdonik

December 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 13 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(349.43 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This experience paper summarizes the key lessons we learned throughout the design and implementation of the Aurora stream-processing engine. For the past 2 years, we have built five stream-based applications using Aurora. We first describe in detail these applications and their implementation in Aurora. We then reflect on the design of Aurora based on this experience. Finally, we discuss our initial ideas on a follow-on project, called Borealis, whose goal is to eliminate the limitations of A ...

Keywords: Data stream management, Distributed stream processing, Monitoring applications, Quality-of-service, Stream-processing engines

19 Extracting usability information from user interface events

 David M. Hilbert, David F. Redmiles
December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured and because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminous and rich in detail, automated support is generally ...

Keywords: human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

20 Secure group management: Secure long term communities in ad hoc networks

Nicolas Prigent, Christophe Bidan, Jean-Pierre Andraud, Olivier Heen
October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor**

networks

 Publisher: ACM Press

Full text available:  [pdf\(156.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Until recently, ad hoc networks were mainly used for military and security-sensitive applications. Nowadays, they could also be used in SOHO (Small Office / Home Office) or home networks. In such networks, devices are linked by long term relations. To ensure their security, it is necessary to define precisely which devices belong to a given network and are consequently inside the security perimeter. The chosen mechanisms need to be easy to use, because the users of SOHO and home networks are nei ...

Keywords: ad hoc networks security, home network security, secure long term community

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